VC 555 VGA
OPERATION GUIDE

Notice

The information in this document is subject to change in order to improve reliability, design,or function without prior notice and does not represent a commitment on the part of this company.In no event will we be liable for direct, indirect, special, or consequential damages arising out of use the product or documentation, even if advised of the possibility of such damages. No part of this reference manual may be reproduced or transmitted in any form or by any means without the prior written permission of this company.

Trademark Acknowledgements

* IBM,IBM PC,IBM PC/XT,PC/AT,PS/2. and OS/2 are trademark of International Business Machines Corp.
* Multisync is a trademark of NEC Home Elect Inc.
* Microsoft Windows is a trademark of Microsoft Corporation.
* Lotus 1-2-3 and Symphony is trademarks of Lotus Development Corporation.

All other brand names are registered trademarks of their respective owners.

CONTENTS

Section 1. Introduction

Congratulations on your purchasing of **VC555** VGA card !! The
VC555 VGA is hardware-compatible with the IBM VGA standard
and provides enhanced high resolution modes.
Please refer to the following descriptions for the detailed features and
software drivers.

Features:

- Single chip VGA adapter 100% compatible with IBM PC/XT/AT.
- Requires only two 256Kx4 DRAMs for standard VGA mode.
- 100% hardware compatible with standard VGA in all mode.
- Support 256KB/512KB memory auto-detect.
- 100% backward compatible with EGA,CGA,MDA and Hercules.
- Support enhance text modes

    132-column by 25-row   16/256K colors
    132-column by 44-row   16/256K colors
- Support enhance graphic modes

    640x200-16 and 256 colors   640x400-256 colors
    640x480-16 and 256 colors   800x600-16 and 256 colors
    1024x768-16 colors

Software Drivers Supported

AutoCAD,MS Windows 3.1,WordPerfect 5.0,GEM 3.1,
Framework II,CADKEY 3.5, Ventura 2.0,Lotus 2.x,Lotus 3.x.

4

Section 2. Configuring the VGA Adapter
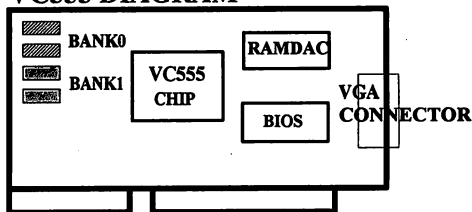
WARNING: Incorrect setting or operating of this adapter may result in damage to the computer system, monitor,or this VC555 itself. Carefully read through this manual before install VC555 into your system.
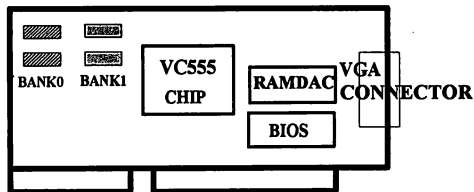
VIDEO MEMORY:

    256KB.........full BANK 0 with 2 pcs DRAM (Type:256KBx4).
    512KB.........full BANK 0 and BANK 1.

VC555 DIAGRAM

VC555S DIAGRAM

Section 3. Installation of the Utilities and Drivers

The diskette provides the following utilities program.

HANSI.SYS: The HANSI.SYS provides all the screen control and keyboard key reassignment features of ANSI.SYS (see your DOS technical Reference manual). HANSI.SYS is a replacement for ANSI.SYS,and the two should not be in use at the same time.

CRTSET.COM:Adjust the screen position of Horizontal & Vertical.

MODESET.COM mode select utility program.

MITEST.EXE for diagnose VC555 card.

BIOSSET.EXE for VGA BIOS shadow RAM,may be used to improve display speed.

NOTE: Because we are continuously updating existing drivers and developing new drivers for popular software applications, your Driver & Utility Diskette may have drivers not listed in the manual.

Procedures of installing your drivers

***All drivers have been compressed as .ZIP files, so you have to decompose the .ZIP files before installation.

To install these drivers, please follow this procedure:
1. Run INST.EXE file.
2. Type letter to select the driver you need.
3. Key in a path for temporary directory.
4. Continue install another driver or type <ALT> + <X> to exit.
5. Change directory to the temporary directory that you name in STEP 3.
6. Edit "README" file to see detail installation steps.
7. Following "README" file and proceed step-by-step.

6

Example: Install the Utilities to your Harddisk

1. Insert the Driver & Utility diskette in DRIVER A:
2. Type :"INST "....to start install program , you will see

```
┌─────────────────────────────────────────────────────┐
│    VC555  DRIVER & UTILITY INSTALL PROGRAM V1.00      │
│   ┌──────────────── DRIVER NAME ────────────────┐     │
│   │                                              │     │
│   │  A. WP50.ZIP      B. UTILITY.ZIP   C. ACAD10.ZIP   │
│   │                                              │     │
│   │  D. FW2.ZIP       E. CADKEY.ZIP    F. GEM31.ZIP    │
│   │                                              │     │
│   │  G. WIN31.ZIP     H. LOTUS2.ZIP    I. LOTUS3.ZIP   │
│   │                                              │     │
│   │  J. VENTURA.ZIP                              │     │
│   └──────────────────────────────────────────────┘    │
├─────────────────────────────────────────────────────┤
│ ↑↓ CHOOSE   [A..J]:JUMP   [ENTER]:SELECT  <ALT+X>:QUIT│
└─────────────────────────────────────────────────────┘
```

3. Type: "B"............................to select UTILITY.ZIP file
4. Type: "C:\VGA"....................to decompose to C:\VGA directory
5. Type: "ALT+X"....................to QUIT
6. Change directory to C:\VGA
7. Type: "MORE < README"..........to read continuous steps
   (Assume DOS COMMAND" MORE" in your system path)

** GEM31.ZIP and VENTURA.ZIP need to be decompose to a diskette
   before installed to HARDDISK.
NOTE: Please carefully study "README" before you continue procedures.

7

Section 4. Appendix Technical Information

A. Resolution & H/V Frequency
The H/V frequency of monitor have to meet the following table, or the monitor will be damaged.

Mode	Resolution	Colors	Horizontal Frequency (KHz)	Vertical frequency (Hz)
0/1	40x25	16	31.5	70
2/3	80x25	16	31.5	70
4/5	320x200	4	31.5	70
6	640x200	2	31.5	70
7	80x25	4	31.5	70
D	320x200	16	31.5	70
E	640x200	16	31.5	7/0
F	640x350	4	31.5	70
10	640x350	16	31.5	70
11	640x480	2	31.5	60
12	640x480	16	31.5	60
13	320x200	256	31.5	70
20	132x25	16	31.5	60
21	132x44	16	31.5	70
28	8000x600	16	35.5	57
29	1024x768	16	35.5	86
2B	640x200	256	35.5	70
2C	640x400	256	35.5	70
2D	640x480	256	35.5	70
2E	800x600	256	35.5	57

B. Monitor connector pin assignments

PIN	SIGNAL	PIN	SIGNAL
1	Red	9	N/A
2	Green	10	Ground
3	Blue	11	MonitorID bit 0
4	Monitor ID bit 2	12	Monitor ID bit 1
5	N/A	13	Horizontal Sync
6	Ground	14	Vertical Sync
7	Ground	15	N/A
8	Ground		

C. Resolution & Memory Size

Resolution	Colors	Video Memory Size
320x200	4/16/256	256KB
320x350	16	256KB
360x400	16	256KB
640x200	2/16/256	256KB
640x350	4/16	256KB
640x400	256	256KB
640x480	2/16	256KB
720x350	4	256KB
720x400	4/16	256KB
1056x350	16	256KB
1056x352	16	256KB
800x600	16	256KB
640x480	256	512KB
800x600	256	512KB
1024x768	16	512KB

FCC Compliance Statement
Certified to comply with the limits for a Class B computing device according to Subpart J or Part 15 of FCC rules. See instructions if interference to radio reception is suspected.

FCC WARNING
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

Shielded cables and I/O cords must be used for this equipment to comply with relevant FCC regulations.